

US 20050013753A1

(19) United States

(12) Patent Application Publication (10) Pub. No.: US 2005/0013753 A1

Eaton et al.

(43) Pub. Date:

Jan. 20, 2005

(54) HEAT-TRANSFER SYSTEMS

(76) Inventors: Edward Eaton, Phoenix, AZ (US); Scot D. Kudcey, South Easton, MA (US)

> Correspondence Address: STONEMAN LAW OFFICES, LTD 3113 NORTH 3RD STREET PHOENIX, AZ 85012 (US)

(21) Appl. No.: 1

10/886,298

(22) Filed:

Jul. 6, 2004

Related U.S. Application Data

(60) Provisional application No. 60/485,441, filed on Jul. 7, 2003.

Publication Classification

(57) ABSTRACT

An improved system for transferring heat, utilizing diols, specifically 1,3-propanediol (PDO). The system reduces the energy consumption, maintenance costs, corrosion, toxicity, and the risk of fire associated with such heat-dependent processes. Unlike traditional hydrocarbon heating fluids, diols do not require draining and replacement if a purifier is installed in the system. Business methods are also disclosed.

